

1644



*Gambel*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/627,896

DATE: 08/15/2002  
TIME: 13:50:06

Input Set : N:\Crf3\RULE60\09627896.raw  
Output Set: N:\CRF4\08152002\I627896.raw

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TECH CENTER 1600/2900

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1 <110> APPLICANT: Co, Man Sung  
 2 Vasquez, Maximiliano  
 3 Carreno, Beatriz  
 4 Celniker, Abbie Cheryl  
 5 Collins, Mary  
 6 Goldman, Samuel  
 7 Gray, Gary S.  
 8 Knight, Andrea  
 9 O'Hara, Denise  
 10 Rup, Bonita  
 11 Veldman, Geertruida M.  
 12 <120> TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH  
 13 B7-2 AND METHODS OF TREATMENT THEREWITH  
 14 <130> FILE REFERENCE: GI-5315  
 15 <140> CURRENT APPLICATION NUMBER: 09/627,896  
 16 <141> CURRENT FILING DATE: 2000-07-27  
 17 <150> PRIOR APPLICATION NUMBER: US/09/249,011  
 18 <151> PRIOR FILING DATE: 1999-02-12  
 19 <160> NUMBER OF SEQ ID NOS: 20  
 20 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
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 23 <211> LENGTH: 405  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Murine anti-B7-2 heavy chain  
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 31                5                10                15  
 gtg cac tcc cag gtc cag ctg cag cag tct ggg cct gag ctg gtg agg      96  
 34 Val His Ser Gln Val Gln Leu Gln Ser Gly Pro Glu Leu Val Arg  
 35                20                25                30  
 cct ggg gaa tca gtg aag att tcc tgc aag ggt tcc ggc tac aca ttc      144  
 37 Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe  
 38                35                40                45  
 act gat tat gct ata cag tgg gtg aag cag agt cat gca aag agt cta      192  
 40 Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu  
 41                50                55                60  
 gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac      240  
 43 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn  
 44

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47 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser
48          85          90          95
49 aca gcc tat atg gaa ctt gcc aga ttg aca tct gag gat tct gcc atc      336
50 Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile
51          100         105         110
52 tat tac tgt gca aga gcg gcc tgg tat atg gac tac tgg ggt caa gga      384
53 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
54          115         120         125
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67          20         25         30
68 Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe
69          35         40         45
70 Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu
71          50         55         60
72 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
73          65         70         75         80
74 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser
75          85         90         95
76 Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile
77          100        105        110
78 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
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80 Thr Ser Val Thr Val Ser Ser
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85 <212> TYPE: DNA
86 <213> ORGANISM: Murine anti-B7-2 light chain
87 <220> FEATURE:
88 <221> NAME/KEY: CDS
89 <222> LOCATION: (1)...(396)
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93          1          5          10          15
94 ggt acc tgt ggg gac att gtg ctg tca cag tct cca tcc tcc ctg gct      96
95 Gly Thr Cys Gly Asp Ile Val Leu Ser Gln Ser Pro Ser Ser Leu Ala

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96	20	25	30	
97	gtg tca gca gga gag aag gtc act atg agc tgc aaa tcc agt cag agt			144
98	Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser			
99	35	40	45	
100	ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag			192
101	Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln			
102	50	55	60	
103	aaa cca ggg cag tct aaa ctg ctg atc tac tgg gca tcc act agg			240
104	Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg			
105	65	70	75	80
106	gaa tct ggg gtc cct gat cgc ttc aca ggc agt gga tct ggg aca gat			288
107	Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Thr Asp			
108	85	90	95	
109	ttc act ctc acc atc agc agt gtg cag gct gaa gac ctg gca gtt tat			336
110	Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr			
111	100	105	110	
112	tac tgc acg caa tct tat aat ctt tac acg ttc gga ggg ggg acc aag			384
113	Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Thr Lys			
114	115	120	125	
115	ctg gaa ata aaa			396
116	Leu Glu Ile Lys			
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120	<211> LENGTH: 132			
121	<212> TYPE: PRT			
122	<213> ORGANISM: Murine anti-B7-2 light chain			
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126	Gly Thr Cys Gly Asp Ile Val Leu Ser Gln Ser Pro Ser Ser Leu Ala			
127	20	25	30	
128	Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser			
129	35	40	45	
130	Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln			
131	50	55	60	
132	Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg			
133	65	70	75	80
134	Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp			
135	85	90	95	
136	Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr			
137	100	105	110	
138	Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Thr Lys			
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144	<211> LENGTH: 405			
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146	<213> ORGANISM: Humanized murine anti-human B7-2 heavy chain			

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149 <222> LOCATION: (1)...(405)
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153   1           5           10          15
154 gtg cac tcc cag gtc cag ctg gtg cag tct ggg gct gag gtg aag aag      96
155 Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
156           20          25          30
157 cct ggg agc tca gtg aag gtg tcc tgc aaa gct tcc ggc tac aca ttc      144
158 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
159           35          40          45
160 act gat tat gct ata cag tgg gtg aga cag gct cct gga cag ggc ctc      192
161 Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
162           50          55          60
163 gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac      240
164 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
165           65          70          75          80
166 cag aag ttt aag ggc aag gcc aca atg act gta gac aag tcg acg agc      288
167 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
168           85          90          95
169 aca gcc tat atg gaa ctt agt tct ttg aga tct gag gat acg gcc gtt      336
170 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
171           100         105         110
172 tat tac tgt gca aga gcg gcc tgg tat atg gac tac tgg ggt caa ggt      384
173 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
174           115         120         125
175 acc ctt gtc acc gtc tcc tca
176 Thr Leu Val Thr Val Ser Ser
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181 <212> TYPE: PRT
182 <213> ORGANISM: Humanized murine anti-human B7-2 heavy chain
183 <400> SEQUENCE: 6
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187   20          25          30
188 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
189   35          40          45
190 Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
191   50          55          60
192 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
193   65          70          75          80
194 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
195   85          90          95
196 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val

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197      . 100      105      110
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206 <213> ORGANISM: Humanized murine anti-human B7-2 light chain
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209 <222> LOCATION: (1)...(396)
210 <400> SEQUENCE: 7
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212      Met Asp Ser Gln Ala Gln Val Leu Ile Leu Leu Leu Trp Val Ser
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214      ggc acc tgt ggg gac att gtg ctg aca cag tct cca gat tcc ctg gct      96
215      Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
216          20        25        30
217      gta agc tta gga gag agg gcc act att agc tgc aaa tcc agt cag agt      144
218      Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
219          35        40        45
220      ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag      192
221      Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
222          50        55        60
223      aaa cca ggg cag cct cct aaa ctg ctg atc tac tgg gca tcc act agg      240
224      Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
225          65        70        75        80
226      gaa tct ggg gtc cct gat cgc ttc agt ggc agt gga tct ggg aca gat      288
227      Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp
228          85        90        95
229      ttc act ctc acc atc agc agt ctg cag gct gaa gac gtg gca gtt tat      336
230      Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
231          100       105       110
232      tac tgc acg caa tct tat aat ctt tac acg ttc gga cag ggg acc aag      384
233      Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys
234          115       120       125
235      gtg gaa ata aaa
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240 <211> LENGTH: 132
241 <212> TYPE: PRT
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/627,896

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